

ACCESSION NUMBER: 0167

DOCUMENT TYPE: MN

TITLE: Manual for Department of Energy Interface with the Defense Nuclear Facilities Safety Board

ORIG. DOC. NO.: DOEM14011

DOCUMENT DATE: 961230

ORIGINATING AGENCY: Department of Energy Office of the Departmental Representative

PAGES: 0055

REEL: **FRAME:**

AUTHORS: Department of Energy Office of the Departmental Representative to the Defense Nuclear Facilities Safety Board

ABSTRACT: This document presents the process the Department of Energy (Department) will use to interface with the Defense Nuclear Facilities Safety Board (Board) and its staff. The requirements set forth in this Manual apply to Department personnel who are to use them to facilitate the quality and responsiveness of the Department's interactions with the Board and its staff. Contractor responsibilities are listed in attachment I, Contractor Requirements Document.

KEYWORDS: DEPARTMENT OF ENERGY, OFFICES, RECOMMENDATIONS, IMPLEMENTATION PLANNING, SAFETY ISSUES MANAGEMENT, CORRESPONDENCE MANAGEMENT, COMMUNICATIONS, SITE INTERFACES, REPORT TO CONGRESS

CROSSINDEX:

PROVENANCE:

LOCATIONS:

ACCESSION NUMBER: 0168

DOCUMENT TYPE: RT

TITLE: Defense Nuclear Facilities Safety Board Annual Reports to Congress

ORIG. DOC. NO.:

DOCUMENT DATE:

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 0970

REEL: **FRAME:**

AUTHORS: Defense Nuclear Facilities Safety Board

ABSTRACT: Includes the first, third, fifth, sixth, and seventh annual reports. Congress created the Defense Nuclear Facilities Safety Board to provide advice and recommendations to the Secretary of Energy regarding public health and safety at Department of Energy defense nuclear facilities. The Board reviews operations, practices, and occurrences at DOE defense nuclear facilities and makes recommendations to the Secretary of Energy that are necessary to protect public health and safety. The Board also assess safety management and personnel effectiveness both within DOE and the various operation and management contractor organizations. If, as a result of its reviews, the Board determines that an imminent or severe threat to public health or safety exists, the Board is required to transmit its recommendations directly to the President, as well as to the Secretary of Energy. By statute, the Board must submit an Annual Report to the Committees on Armed Services and on Appropriations of the Senate and to the Speaker of the House of Representatives at the same time that the President submits the budget to Congress.

The report must include a review of the activities of the Board during the preceding year, including all recommendations made by the Board. An assessment is required of the improvements in safety at DOE defense nuclear facilities during the previous year. The report must also assess safety problems remaining at DOE defense nuclear facilities.

KEYWORDS: DEFENSE NUCLEAR FACILITIES, SAFETY, RECOMMENDATION IMPLEMENTATION, HEALTH RISKS, MANAGEMENT, PLUTONIUM, WASTE STORAGE, DISPOSITION, CRITICALITY, NUCLEAR MATERIALS, PUBLIC RESPONSE, STOCKPILE STEWARDSHIP, DECOMMISSIONING, RADIOLOGICAL PROTECTION

CROSSINDEX:

PROVENANCE:

LOCATIONS: Rocky Flats Environmental Technology Site, Jefferson County, CO; Oak Ridge Y-12 Plant, Gaseous Diffusion Plant, Oak Ridge, TN; Idaho National Engineering Laboratory, Idaho Falls, ID; Fernald Environmental Management Project, Fernald, OH; Mound Plant, Miamisburg, OH; West Valley Demonstration Project, West Valley, NY; Hanford Site, Richland, WA; Savannah River Site, Aiken, SC; Nevada Test Site, Nye County, NV; Pantex Plant, Amarillo, TX; Los Alamos National Laboratory, Los Alamos, NM; Lawrence Livermore National Laboratory, Livermore, CA; Former Soviet Union; Portsmouth Gaseous Diffusion Plant, Portsmouth, OH; Paducah Gaseous Diffusion Plant, Paducah, KY

ACCESSION NUMBER: 0169

DOCUMENT TYPE: RC

TITLE: Defense Nuclear Facilities Safety Board Recommendations

ORIG. DOC. NO.:

DOCUMENT DATE:

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 0075

REEL: FRAME:

AUTHORS: Defense Nuclear Facilities Safety Board

ABSTRACT: Includes recommendations for 1990 through 1994. Recommendations resulting from Defense Nuclear Facilities Safety Board Annual Reports to Congress.

KEYWORDS: DEFENSE NUCLEAR FACILITIES, SAFETY, RECOMMENDATION IMPLEMENTATION, HEALTH RISKS, MANAGEMENT, PLUTONIUM, WASTE STORAGE, DISPOSITION, CRITICALITY, NUCLEAR MATERIALS, PUBLIC RESPONSE, STOCKPILE STEWARDSHIP, DECOMMISSIONING, RADIOLOGICAL PROTECTION

CROSSINDEX:

PROVENANCE:

LOCATIONS: Rocky Flats Environmental Technology Site, Jefferson County, CO; Oak Ridge Y-12 Plant, Gaseous Diffusion Plant, Oak Ridge, TN; Idaho National Engineering Laboratory, Idaho Falls, ID; Fernald Environmental Management Project, Fernald, OH; Mound Plant, Miamisburg, OH; West Valley Demonstration Project, West Valley, NY; Hanford Site, Richland, WA; Savannah River Site, Aiken, SC; Nevada Test Site, Nye County, NV; Pantex Plant, Amarillo, TX; Los Alamos National Laboratory, Los Alamos, NM; Lawrence Livermore National Laboratory, Livermore, CA; Former Soviet Union;

Portsmouth Gaseous Diffusion Plant, Portsmouth, OH; Paducah Gaseous Diffusion Plant, Paducah, KY

ACCESSION NUMBER: 0170

DOCUMENT TYPE: RT

TITLE: Low-Level Waste Disposal Policy for Department of Energy Defense Nuclear Facilities - Defense Nuclear Facilities Safety Board Technical Report

ORIG. DOC. NO.: DNFSBTECH2

DOCUMENT DATE: 9409114

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 0064

REEL: **FRAME:**

AUTHORS: Napolitano D S, Sautman M T, Helfrich M V, Stokes S A

ABSTRACT: This report is the result of Defense Nuclear Facilities Safety Board (DNFSB) staff reviews of Department of Energy radioactive waste management policy and of staff visits to three DOE sites - Hanford, the Los Alamos National Laboratory, and the Savannah River Site. The DNFSB staff reviewed Department of Energy low-level waste (LLW) policy to determine if it ensures that defense nuclear sites incorporate defense-in-depth practices in the desing and operation of LLW facilities. The staff focused on buried waste since waste in temporary above ground storage is usually later emplaced in burial pits.

KEYWORDS: LOW-LEVEL, RADIOACTIVE WASTE, WASTE MANAGEMENT, DISPOSITION

CROSSINDEX:

PROVENANCE:

LOCATIONS: Hanford Site, Richland, WA; Los Alamos National Laboratory, Los Alamos, NM; Savannah River Site, Aiken, SC

ACCESSION NUMBER: 0170a

DOCUMENT TYPE: RT

TITLE: Plutonium Storage Safety at Major Department of Energy Facilities - Defense Nuclear Facilities Safety Board Technical Report

ORIG. DOC. NO.: DNFSBTECH1

DOCUMENT DATE: 940414

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 0051

REEL: **FRAME:**

AUTHORS: Hurt D, De La Paz A, Fortenberry K, Tontodonato R, Von Holle W

ABSTRACT: This report reviews the safety of plutonium stored at the Rocky Flats Plant, the Hanford Site, the Los Alamos National Laboratory, and the Savannah River Site. It considers the inventory of bare (unencapsulated) plutonium metal, plutonium oxides, other plutonium compounds, solid plutonium scrap, and plutonium solutions. The report does not consider irradiated fuel, finished plutonium weapons components (pits), or plutonium-238.

KEYWORDS: PLUTONIUM, METAL, OXIDES, LONG-TERM STORAGE, DISPOSITION, SAFEGUARDS, HEALTH RISKS, ENVIRONMENTAL EFFECTS, HANDLING, PROCESSING, INCIDENTS

CROSSINDEX:

PROVENANCE:

LOCATIONS: Los Alamos National Laboratory, Los Alamos, NM; Hanford Site, Richland, WA; Rocky Flats Environmental Technology Site, Jefferson County, CO; Savannah River Site, Aiken, SC

ACCESSION NUMBER: 0171

DOCUMENT TYPE: RT

TITLE: Status of Highly Enriched Uranium Processing Capability at Building 9212 Oak Ridge Y-12 Plant - Defense Nuclear Facilities Safety Board Technical Report

ORIG. DOC. NO.: DNFSBTECH9

DOCUMENT DATE: 951208

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 0025

REEL: FRAME:

AUTHORS: Ogg D, Andrews W, Robinson R

ABSTRACT: This report considers several potential missions for Building 9212 at the Oak Ridge (OR) Y-12 Plant and OR's ability to support those missions. Building 9212 contains more than 50 unit processes that provide the capability to process nearly any unirradiated chemical or physical form of highly enriched uranium (HEU) and produce a variety of purified HEU metals and oxides. Building operations were shut down in September 1994 due to Y-12 criticality safety and conduct of operations concerns raised by the Defense Nuclear Facilities Safety Board staff. Board Recommendation 94-4 (Appendix A) addresses these concerns.

KEYWORDS: HIGHLY ENRICHED URANIUM, PROCESSING, STORAGE

STOCKPILE STEWARDSHIP, CRITICALITY, SAFETY

CROSSINDEX:

PROVENANCE:

LOCATIONS: Oak Ridge Reservation Y-12 Plant, Oak Ridge, TN

ACCESSION NUMBER: 0172

DOCUMENT TYPE: RT

TITLE: Uranium-233 Storage Safety at Department of Energy Facilities - Defense Nuclear Facilities Safety Board Technical Report

ORIG. DOC. NO.: DNFSBTECH13

DOCUMENT DATE: 970200

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 0031

REEL: FRAME:

AUTHORS: Andrews W L, Hunt T L, Krahn S L, Sautman M T

ABSTRACT: This report examines the safety of U-233 stored at several sites in the Department of Energy's (DOE) complex. DOE has assessed the vulnerabilities associated with U-233 reactor fuel in its spent fuel vulnerability assessment (U.S. Department of Energy, November 1993) and those associated with other U-233 in its highly enriched uranium (HEU) vulnerability assessment (U.S. Department of Energy, December 1996). In addition, corrective actions regarding the vulnerabilities associated with Oak Ridge National Laboratory's (ORNL) Molten Salt Reactor Experiment were captured by DOE in its Implementation Plan for Defense Nuclear Facilities

Safety Board Recommendation 94-1 (U.S. Department of Energy, February 28, 1995). The purpose of this report is to consolidate the safety issues and vulnerabilities associated with this unique and hazardous isotope of uranium.

KEYWORDS: HIGHLY ENRICHED URANIUM, URANIUM 233 AND 232, VULNERABILITIES, STORAGE, SPENT FUEL, HAZARDS, RADIATION FIELDS, MOLTEN SALT REACTOR, TRANSURANIC WASTE

CROSSINDEX:

PROVENANCE:

LOCATIONS: Oak Ridge National Laboratory, Oak Ridge, TN; Idaho National Engineering Laboratory, Idaho Falls, ID; Los Alamos National Laboratory, Los Alamos, NM; Lawrence Livermore National Laboratory, Livermore, CA; Savannah River Site, Aiken, SC

ACCESSION NUMBER: 0173

DOCUMENT TYPE: RT

TITLE: Operational Formality for Department of Energy Nuclear Facilities and Activities - Defense Nuclear Facilities Safety Board Technical Report

ORIG. DOC. NO.: DNFSBTECH15

DOCUMENT DATE: 970300

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 0041

REEL: FRAME:

AUTHORS: Krahn S, Moury M

ABSTRACT: This report sets forth the principles of operational formality in a logical framework. Though it deals specifically with activities at DOE's defense nuclear sites it should also help promote the concept of a safety culture marked by a dedication to doing work safely. The concepts presented are fully consistent with the requirements in the Occupational Safety and Health Administration's (OSHA) 29 Code of Federal Regulations 1910.119, Process Safety Management of Highly Hazardous Chemicals, and the guiding principles set forth in the Implementation Plan for Recommendation 95-2. It is expected that application of the practices described in this document will not only contribute to achieving a high degree of safety, but also lead to more efficient and economical operations.

KEYWORDS: SAFETY CULTURE, FORMALITY OF OPERATIONS, MAINTENANCE, SURVEILLANCE, TRAINING, CONFIGURATION MANAGEMENT, NUCLEAR SITES, FACILITIES

CROSSINDEX:

PROVENANCE:

LOCATIONS:

ACCESSION NUMBER: 0174

DOCUMENT TYPE: DD, RT

TITLE: Defense Nuclear Facilities Safety Board - Information and Data

ORIG. DOC. NO.:

DOCUMENT DATE:

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 9380

REEL: FRAME:

AUTHORS: Defense Nuclear Facilities Safety Board

ABSTRACT: Includes recommendations, public hearing transcripts, correspondence, annual reports and implementation plans.

KEYWORDS: DEFENSE NUCLEAR FACILITIES SAFETY BOARD, RECOMMENDATION IMPLEMENTATION, HEALTH RISKS, MANAGEMENT, PLUTONIUM, WASTE STORAGE, DISPOSITION, CRITICALITY, NUCLEAR MATERIALS, PUBLIC RESPONSE, STOCKPILE STEWARDSHIP, DECOMMISSIONING, RADIOLOGICAL PROTECTION, CORRESPONDENCE, ANNUAL REPORTS

CROSSINDEX:

PROVENANCE:

LOCATIONS:

ACCESSION NUMBER: 0175

DOCUMENT TYPE: PN

TITLE: Defense Nuclear Facilities Safety Board Recommendation 94-1 Implementation Plan

ORIG. DOC. NO.:

DOCUMENT DATE: 950228

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 0118

REEL: FRAME:

AUTHORS: Defense Nuclear Facilities Safety Board

ABSTRACT: The Defense Nuclear Facilities Safety Board (DNFSB or the Board) issued Recommendation 94-1 on May 26, 1994. The Department of Energy (DOE or the Department) accepted the Board's Recommendation on August 31, 1994, and hereby submits its Implementation Plan. This Implementation Plan is organized into two major sections: 1) Organization and Management - Details the systems engineering approach and responsibility and the formation of the Nuclear Materials Stabilization Task Group for ensuring the Department achieves the commitments detailed in the Implementation Plan. An Integration Working Group (IWG), composed of technical representatives from key sites, will support and report to the Task Group for purposes of ensuring the best integration of materials stabilization between sites. A Research Committee (RC) will support and report to the Task Group on research and technology development needs for the integrated stabilization program. 2) Materials - Organizes materials by types; that is: plutonium solutions, plutonium metals and oxides (greater than 50 wt. %), plutonium residues and oxides (less than 50 wt. %), special isotopes, certain uranium, and spent nuclear fuel. Each material discussion provides the overall plans and timelines for stabilization activities across the complex.

KEYWORDS: NUCLEAR MATERIALS, PLUTONIUM, METALS, OXIDES, MIXED OXIDES, STABILIZATION, ISOTOPES, URANIUM, SPENT FUEL, STORAGE, DISPOSITION

CROSSINDEX:

PROVENANCE:

LOCATIONS: Rocky Flats Environmental Technology Site, Jefferson County, CO; Savannah River Site, Aiken, SC; Hanford Site, Richland, WA; Los Alamos National

Laboratory, Los Alamos, NM; Lawrence Livermore National Laboratory, Livermore, CA; Mound Plant, Miamisburg, OH; Argonne National Laboratory-East, Argonne, IL; Oak Ridge Reservation, Oak Ridge, TN; Lawrence Berkeley National Laboratory, Berkeley, CA; Sandia National Laboratories, Albuquerque, NM; New Brunswick Laboratory, New Brunswick, NJ

ACCESSION NUMBER: 0176

DOCUMENT TYPE: RT

TITLE: Department of Energy Advisory Committee on Nuclear Facility Safety Meetings Transcripts

ORIG. DOC. NO.:

DOCUMENT DATE: 900000

ORIGINATING AGENCY: Department of Energy Advisory Committee on Nuclear Facility Safety

PAGES: 0494

REEL: FRAME:

AUTHORS: Department of Energy Advisory Committee on Nuclear Facility Safety

ABSTRACT: Includes copies of the transcripts of the Advisory Committee on Nuclear Facility Safety (ACNFS) meetings held at the Washington, DC on October 30-31, 1990 and at the Savannah River Site on November 29-30, 1990. Also enclosed are ACNFS minutes for our Los Alamos, NM on September 24-25, 1990.

KEYWORDS: ADVISORY COMMITTEE ON NUCLEAR FACILITY SAFETY, SAFEGUARDS, NUCLEAR MATERIALS, PUBLIC RESPONSE

CROSSINDEX:

PROVENANCE:

LOCATIONS: Washington D.C.; Savannah River Site, Aiken, SC; Los Alamos, NM

ACCESSION NUMBER: 0177

DOCUMENT TYPE: RT

TITLE: Public Meetings and Hearings before the Defense Nuclear Facilities Safety Board

ORIG. DOC. NO.:

DOCUMENT DATE:

ORIGINATING AGENCY: Defense Nuclear Facilities Safety Board

PAGES: 7246

REEL: FRAME:

AUTHORS: Defense Nuclear Facilities Safety Board

ABSTRACT: Defense Nuclear Facilities Safety Board public meetings transcripts from 1990, 1991 (volumes 1, 2), 1992, 1993 (volumes 1, 2), 1994, and 1995 (volumes 1, 2). Includes statements, agendas, news articles, presentations and questions submitted for the record along with transcripts of the proceedings. **1990 Meetings:** Aiken, South Carolina, June 28, 1990; Boulder, Colorado, August 30, 1990. **1991 Meetings:** Washington D.C., January 14, 24, 29, September 26, October 3 and 4, and December 20, 1991; Aiken, South Carolina, April 24, October 31, and December 9, 1991; Boulder, Colorado, June 24, and August 24, 1991. **1992 Meetings:** Boulder, Colorado, January 16, 1992; Aiken, South Carolina, December 15, 1992; Washington D.C., February 3, and April 24, 1992; Amarillo, Texas, August 20, 1992. **1993 Meetings:** Boulder, Colorado, February 2, 1993; Washington D.C., February 8, and September

29, 1993; Richland, Washington, February 11, 1993. Idaho Falls, Idaho, July 13, 1993; Oak Ridge, Tennessee, August 26, 1993; Los Alamos, New Mexico, November 10, 1993. **1994 Meetings:** Washington D.C., March 7, 11, 15, and December 6, 1994. **1995 Meetings:** Washington D.C., January 19, February 21, May 31, July 18, and September 20, 1995; Aiken, South Carolina, March 22, 1995; Westminster, Colorado, March 6, 1995; Richland, Washington, March 29 and November 11, 1995; Livermore, California, December 6, 1995.

KEYWORDS: DEFENSE NUCLEAR FACILITIES SAFETY BOARD, PLUTONIUM, URANIUM, RADIOTOXIC POLLUTION, ENVIRONMENTAL EFFECTS, HEALTH RISKS, FACILITIES, SAFETY MANAGEMENT, PUBLIC RESPONSE

CROSSINDEX:

PROVENANCE:

LOCATIONS: Aiken, SC; Savannah River Site, Aiken, SC; Boulder, CO; Rocky Flats Environmental Technology Site, Jefferson County, CO; Westminster, CO; Washington D.C.; Amarillo, TX; Pantex Plant, Amarillo, TX; Richland, WA; Hanford Site, Richland, WA; Idaho Falls, ID; Idaho National Engineering Laboratory, Idaho Falls, ID; Oak Ridge, TN; Oak Ridge Reservation, Oak Ridge, TN; Los Alamos, NM; Los Alamos National Laboratory, Los Alamos, NM; Livermore, CA; Lawrence Livermore National Laboratory, Livermore, CA

ACCESSION NUMBER: 0178

DOCUMENT TYPE: RT

TITLE: Reynold's Electrical and Engineering Company (REECO) Occurrence Reports

ORIG. DOC. NO.:

DOCUMENT DATE:

ORIGINATING AGENCY: Department of Energy

PAGES: 2500

REEL: FRAME:

AUTHORS: Reynold's Electrical and Engineering Company

ABSTRACT: Volumes 1 - 4. Reynold's Electrical and Engineering Company Occurrence Reports for 1991 through 1995.

KEYWORDS: DEPARTMENT OF ENERGY, REYNOLD'S ELECTRICAL AND ENGINEERING COMPANY, NEVADA OPERATIONS OFFICE, OCCURRENCE REPORTS

CROSSINDEX:

PROVENANCE:

LOCATIONS:

ACCESSION NUMBER: 0179

DOCUMENT TYPE: RT

TITLE: EG&G Energy Measurements, Inc. (EG&G) Occurrence Reports

ORIG. DOC. NO.:

DOCUMENT DATE:

ORIGINATING AGENCY: Department of Energy

PAGES: 1200

REEL: FRAME:

AUTHORS: EG&G Energy Measurements, Inc.

ABSTRACT: Volumes 1-2. EG&G Energy Measurements, Inc. Occurrence Reports for 1991 through 1994.

KEYWORDS: DEPARTMENT OF ENERGY, EG&G ENERGY MEASUREMENTS, INC., NEVADA OPERATIONS OFFICE, OCCURRENCE REPORTS

CROSSINDEX:

PROVENANCE:

LOCATIONS:

ACCESSION NUMBER: 0180

DOCUMENT TYPE: RT

TITLE: Nevada Operations Office Occurrence Reports

ORIG. DOC. NO.:

DOCUMENT DATE:

ORIGINATING AGENCY: Department of Energy

PAGES: 1200

REEL: FRAME:

AUTHORS: Nevada Operations Office

ABSTRACT: Volumes 1-3. Nevada Operations Office Occurrence Reports for 1991 through 1995.

KEYWORDS: DEPARTMENT OF ENERGY, NEVADA OPERATIONS OFFICE, OCCURRENCE REPORTS

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LOCATIONS: